	RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)										DATE February 2003				
	T ACTIVITY RDT&E Management Support			=	UMBER AND 1004F		onal Act	tivities			PROJECT 4645				
	COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost				
4645	International Cooperative Research & Development	3,574	3,772	3,867	3,955	4,037	4,107	4,166	4,221	Continuing	TBD				
	Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	C				

(U) A. Mission Description

The mission of this program is to gain access to our Allies' best defense technologies, eliminate costly duplication of research and development (R&D) efforts, accelerate availability of defense systems, and to deploy and sustain common or interoperable USAF and Allied equipment through international cooperative research and development (ICR&D).

The USAF is party to multiple international cooperative agreements to solve common US and Allied military scientific and technological problems and to develop materiel solutions to harmonize coalition requirements. This program funds the USAF to support, develop, process, negotiate, implement, and manage these international cooperative agreements and projects in compliance with statutory reporting provisions and exacting legal statutes, fiscal constraints, technology transfer controls, intellectual property rights, third party transfer provisions, quid-pro-quo criteria, industrial base factors, and political-military interests. Included in this budget are domestic and international technology assessment teams; specialized working groups; long-term technology project (LTTP) developments; support for cooperative opportunity assessments; developing, processing, negotiating and managing international agreements; oversight of ICR&D projects; overseas R&D liaison and coordination offices; bilateral and multilateral staff talks; Engineering and Scientist Exchange Program (ESEP); and Administrative and Professional Exchange Program (APEP). Funds USAF participation in the NATO Air Force Armaments Group (NAFAG) and NATO Research and Technology Organization (RTO).

(U) <u>FY 2002 (\$ in Thousands)</u>

(U)	\$100	NC3A - Funded the US R&D Coordination Office and administrative support for the assigned US Engineering and Technical professionals and
		cooperative Research and Development activities assigned to the NC3A.
(U)	\$200	ESEP/APEP - Funded the USAF execution and the management oversight of ESEP and APEP agreements. Funded eight field level military and
1		civilian from AFMC Facilities, Product Centers, Test Centers, Logistic Centers, and the Academy for two year tours at selected European and
		Asian government laboratories or other institutions. 3 ESEP agreements are under negotiations. 1 APEP agreement is under negotiations.
(U)	\$1,999	ICR&D - Funded USAF overseas R&D liaison offices. Funded management support and oversight of International Affairs Armaments
		Cooperation Division (SAF/IAPQ), AFMC, FCT and NATO Cooperative R&D Program. Funded USAF participation at the NATO Four-Power
1		Forum, NAFAG, and its subgroups to promote NATO harmonization of requirements, standardization, and new cooperative R&D programs.

Project 4645 Page 1 of 7 Pages Exhibit R-2 (PE 1001004F)

	RDT&E BUDGET ITEM JUSTIF	FICATION SHEET (R-2 Exhibit)	DATE February 2003					
BUDGET ACT	TIVITY &E Management Support	PE NUMBER AND TITLE 1001004F International Activities	PROJECT 4645					
(U) <u>A. Mi</u>	ission Description Continued							
(U) <u>FY 20</u>	South Korea. Funded expanded technology. Partially funded technical asserted R&D programs. Funded upgrades to the International Activities Database (IAD)	Japan Systems and Technology Forum and Defense Cooperation Complogy acquisition contracts and follow-on cooperative opportunities witessments and international agreements negotiation start-up costs associate DoD International Agreements Management System. Funded phase B). Funded negotiation and support costs associated with the NATO Agreements.	th Russia, Ukraine, and Eastern lated with promising cooperative 1 development of the USAF					
(U) \$400	Armaments Cooperation - Funded the lagreements developed, but not signed, Warning Systems, Theater Missile Def Global Positioning Systems; Europe: Dordinance Suite, Agent Defeat Weapon Monitoring of Chemical/Biological Wa	r requirements and initiate agreements to explore these opportunities. USAF to process the rapidly increasing number of proposals for ICR& during FY01 and work will be initiated in the following areas: Asia: Usense, Satellites, Command, Control, Communication, Computer, Infordistributed Simulation Technology, Unmanned Aerial Vehicles, Aging n, Joint Targeting Tool, Satellites, Space, Environmental Issues; Middiarfare; Central and South America: Monitoring of Chemical/Biological	Inmanned Aerial Vehicles, Early mation and Intelligence, Effects on Aircraft, Programmable Integrated le East: Intelligence, Sensors,					
(U) \$175	exchanges, and reports in the following Environments, (4) Operational Medicin (8) Systems Architecture/ Mechanization	tion in the NATO RTO activities. The FY02 program of work will cog areas: (1) Vehicle and Platform, (2) Propulsion and Power, (3) Humane, (5) Information Warfare and Assurance, (6) Information and Know on, (9) Mission Management, (10) Phenomenology, and (11) Sensors, or Peace initiative through the R&T outreach program with scientists a	an Protection in Adverse ledge, (7) Modeling and Simulation Electronics, Processing and					
(U) \$700	AFMC - Funded AFMC activities to id and existing projects. Supported AFM meetings of TTCP, Air Standardization bilateral/multilateral meetings to define Canada, and other countries on new tec staffing new international cooperative	entify, assess, develop, and report International Cooperative Agreeme C activities for the USAF NATO Cooperative R&D Programs. Funds a Coordinating Committee, NATO Working Groups, and other NATO e new areas of possible cooperation and exploratory visits to France, Gehnology exchange projects. Funded project engineers at centers and Agreements. Funded MAJCOM staff to support and promote ICR&D about at International Airshows. Funds small contracts in support of	USAF participation in panel forums. Funded periodic ermany, Israel, United Kingdom, AFRL for identifying, creating and throughout AFMC. Funded the					
(U) \$3,57			<u>.</u>					
Project 4	4645	Page 2 of 7 Pages	Exhibit R-2 (PE 1001004F)					

	RDT&E BUDGET ITEM JUSTI	FICATION SHEET (R-2 Exhibit)	DATE February 2003
BUDGET ACTIV 06 - RDT&	птү E Management Support	PE NUMBER AND TITLE 1001004F International Activities	PROJECT 4645
(U) A. Missi	ion Description Continued		
(U) FY 2003	3 (\$ in Thousands)		
(U) \$100	NC3A - Funds the US R&D Coordina cooperative Research and Developme	ntion Office and administrative support for the assigned US Engineering activities assigned to the NC3A	ng and Technical professionals and
(U) \$200	ESEP/APEP - Funds the USAF execumilitary and civilian from AFMC FacEuropean and Asian government laboration.	tion and the management oversight of ESEP and APEP agreements. Filities, Product Centers, Test Centers, Logistic Centers, and the Acader ratories or other institutions. ESEP agreements will be signed with 14 will be signed, 2 other countries agreements are under negotiation.	my for two year tours at selected
(U) \$2,552	ICR&D - Funds USAF overseas R&E Division (SAF/IAPQ), AFMC, FCT a NAFAG, and its subgroups to promot USAF participation at the US-Japan S Korea. Partially funds technical asses programs. Funds upgrades to the DoI negotiation and support costs associat requirements and initiate agreements to Cooperative Agreements as required by Program. Funds AFMC participation Working Groups. Funds periodic bilat Germany, Israel, United Kingdom, Care	Dliaison offices. Funds management support and oversight of International NATO Cooperative R&D Program. Funds USAF participation at the NATO harmonization of requirements, standardization, and new cooperations and Technology Forum and Defense Cooperation Committee Instructional Agreements Management System. Funds phase 2 developed with the NATO AWACS Board of Directors. Funds ICOG efforts to explore these opportunities. Funds AFMC activities to identify, asset yes statute for new and existing projects. Supports AFMC activities for in panel meetings of TTCP, Air Standardization Coordinating Committeral/multilateral meetings to define new areas of possible cooperation anada, and other countries on new technology exchange projects. Fund to identify, create, and staff new international cooperative agreements.	the NATO Four-Power Forum, operative R&D programs. Funds Meetings with Singapore and South sted with promising cooperative R&D dopment of the USAF IADB. Funds to harmonize Four-power ess, develop, and report International the International Cooperative R&D stee, NATO MAS and NATO CNAD and exploratory visits to France, is the efforts of project engineers and
(U) \$770	Armaments Cooperation - Funds the Umulti-lateral Agreements with key alliin the areas of: Reconnaissance and State Generation Fighter Aircraft (JSF), Glocounter Air Weapons; Electronics; Cochemical/Biological Warfare Protecti Factors; Propulsion; Aircraft Structura	USAF's ability to develop and negotiate the increasing number of propies. Work will continue on agreements developed, but not signed, duri urveillance; Global Positioning Satellites; Space and Materials; Groun obal Hawk, Unmanned Combat Aerial Vehicles; Munitions; Airborne ommand, Control, Communications, Computer, Intelligence, Reconnation; Distributed Simulation Technology; Laser Technology; Aging Airal Integrity; Wind Tunnel Design; Materials; Environmental Analysis.	osals for ICR&D bi-lateral and ing FY02 and work will be initiated d Based Relay Stations; Next Radar; Early Warning Systems; issance and Surveillance; rcraft;; Environmental Issues; Human
(U) \$150		tion in the NATO RTO activities. The FY03 program of work will co Vehicle and Platform, (2) Propulsion and Power, (3) Human Protection	
Project 46	45	Page 3 of 7 Pages	Exhibit R-2 (PE 1001004F)

	RI	OT&E BUDGET ITEM JUSTI	FICATION SHEET (R-2 Exhibit)	DATE February 2003
	GET ACTIVITY - RDT&E Mar	nagement Support	PE NUMBER AND TITLE 1001004F International Activitie	PROJECT 4645
(U)	A. Mission Des	cription Continued		
(U)		Architecture/ Mechanization, (9) Miss Continues Partnership for Peace initia Central Europe.	n Warfare and Assurance, (6) Information and Knowledge, (7) Ission Management, (10) Phenomenology, and (11) Sensors, Elective through the R&T outreach program with scientists and eng	ctronics, Processing and Components.
(U)	\$3,772	Total		
(U)	FY 2004 (\$ in T	-		
(U)	\$100	NC3A - Funds the US R&D Coordina cooperative Research and Developme	ation Office and administrative support for the assigned US Eng nt activities assigned to the NC3A.	ineering and Technical professionals and
(U)	\$200	military and civilian from AFMC Fac European and Asian government labo	tion and the management oversight of ESEP and APEP agreem ilities, Product Centers, Test Centers, Logistic Centers, and the ratories or other institutions. ESEP agreements will be signed very will be signed, 1 other agreements will be in negotiation.	Academy for two year tours at selected
(U)	\$2,617	Division (SAF/IAPQ), AFMC, FCT a NAFAG, and its subgroups to promot USAF participation at the US-Japan S Korea. Partially funds technical asses programs. Funds upgrades to the Dol negotiation and support costs associat requirements and initiate agreements Cooperative Agreements as required Program. Funds AFMC participation Working Groups. Funds periodic bila Germany, Israel, United Kingdom, Cascientists at AFMC subordinate units	D liaison offices. Funds management support and oversight of In and NATO Cooperative R&D Program. Funds USAF participate NATO harmonization of requirements, standardization, and not be systems and Technology Forum and Defense Cooperation Commissments and international agreements negotiation start-up costs and International Agreements Management System. Funds phase and with the NATO AWACS Board of Directors. Funds ICOG of the explore these opportunities. Funds AFMC activities to identify statute for new and existing projects. Supports AFMC activities in panel meetings of TTCP, Air Standardization Coordinating Cuteral/multilateral meetings to define new areas of possible cooperanda, and other countries on new technology exchange projects to identify, create, and staff new international cooperative agrees the status of	ion at the NATO Four-Power Forum, ew cooperative R&D programs. Funds mittee Meetings with Singapore and South associated with promising cooperative R&D development of the USAF IADB. Funds efforts to harmonize Four-power fy, assess, develop, and report International ties for the International Cooperative R&D Committee, NATO MAS and NATO CNAD seration and exploratory visits to France, s. Funds the efforts of project engineers and ements.
(U)	\$800	<u> -</u>	USAF's ability to develop and negotiate the increasing number of ies. Work will continue on agreements developed, but not signed	± ±
F	Project 4645		Page 4 of 7 Pages	Exhibit R-2 (PE 1001004F)

	RDT&E BUDGET ITEM JUS	STIFICATION SHEET (R-2 Exhibit)	DATE Februa r	ry 2003
	GET ACTIVITY - RDT&E Management Support	PE NUMBER AND TITLE 1001004F International Activities		PROJECT 4645
(U)	A. Mission Description Continued			
(U) (U)	Generation Fighter Aircraft (JSF). Counter Air Weapons; Electronics Chemical/Biological Warfare Pro Factors; Propulsion; Aircraft Strue \$150 NATO RTO - Funds USAF partical and reports in the following areas Operational Medicine, (5) Inform. Architecture/ Mechanization, (9)	ad Surveillance; Global Positioning Satellites; Space and Materials; Grog Global Hawk, Unmanned Combat Aerial Vehicles; Munitions; Airborns; Command, Control, Communications, Computer, Intelligence, Recontection; Distributed Simulation Technology; Laser Technology; Aging ctural Integrity; Wind Tunnel Design; Materials; Environmental Analysticipation in the NATO RTO activities. The FY04 program of work will (1) Vehicle and Platform, (2) Propulsion and Power, (3) Human Protection Warfare and Assurance, (6) Information and Knowledge, (7) Mod Mission Management, (10) Phenomenology, and (11) Sensors, Electronalitiative through the R&T outreach program with scientists and engineer	ne Radar; Early Warnin anaissance and Surveilla Aircraft;; Environmenta sis. consist of studies, techn action in Adverse Environ leling and Simulation, (Sonics, Processing and Co	g Systems; ance; al Issues; Human nical exchanges, onments, (4) 8) Systems mponents.
(U)	B. Budget Activity Justification This program is in Budget Activity 6, Management and USAF.	Support, because it provides for general R&D Management support for	all aspects of ICR&D	activities in the
(U)	C. Program Change Summary (\$ in Thousands)			
(U) (U) (U)	Previous President's Budget Appropriated Value Adjustments to Appropriated Value a. Congressional/General Reductions b. Small Business Innovative Research	FY 2002 FY 2003 3,592 3,878 3,592 3,878 -18	<u>FY 2004</u> 3,945	<u>Total Cos</u>
(U) (U)	c. Omnibus or Other Above Threshold Reprogram d. Below Threshold Reprogram e. Rescissions Adjustments to Budget Years Since FY 2003 PBR Current Budget Submit/FY 2004 PBR	-42 -64 3,574 3,772	-78 3,867	TBD
. ,	Project 4645	Page 5 of 7 Pages		PE 1001004F)

	RDT&E BUDGET I	TEM JUS	STIFICA	TION SH	IEET (F	R-2 Ext	nibit	t)		DAT		bruary	/ 2003	
=	BET ACTIVITY RDT&E Management Support				NUMBER AN 01004F		tion	al Activ	ities	7				JECT
(U)	C. Program Change Summary (\$ in Tho	usands) Con	tinued											
(U)	Significant Program Changes: N/A													
(U)	D. Other Program Funding Summary (\$	in Thousand	<u>ls)</u>											
	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 200)7	FY 2008	FY 20	009	Cos	st to	<u>T</u>	otal Cost
	<u>Actual</u>	Estimate	Estimate	Estimate	Estimate	<u>Estima</u>	ate	Estimate	Estin	<u>nate</u>	<u>Com</u> r	<u>olete</u>		
(U)	N/A													
	This program element is the only source of or interoperable equipment with our allies; (allied technologies for equipping coalition frassessed and after the international agreeme rationalize cooperative opportunities, assess partners. Once these initiatives and program funded in their own program elements.	(b) leverage Userces. We obtain the are negotallied technologies.	USAF resource train these be inted and corollogies, and a	ces with our enefits only ancluded. This generate sour	allies through fter internates SPE provided, cost-effe	gh cost shad cional cooples funds to ctive coop	ring a erativ o exec erativ	and econon we opporture cute up-fro re program	nies of so nities are nt arman s betwee	cale; and identification identificat	d (c) exploied, exploied, exploied operations SAF and	loit the bored, devenued in responsible our inte	pest US a veloped, sibilities rnationa	and s, l
(U)	F. Schedule Profile													
					FY 2002			FY 2	2003			FY	<u>2004</u>	
				1 2	2 3	4	1	2	3	4	1	2	3	4
	-NATO C3 Agency Program Review					*				X				
	-NATO Research & Technology Board			*	*		*		X					
(U)	-Bilateral Technology R&D Projects MOUs	8		*	* *	*	*	X	X	X				
(U)	-Cooperative R&D Projects			*	* *	*	*	X	X	X	X	X	X	X
(U)	-FCT Prioritization Board			;				X				X		
(U)	-NATO Cooperative R&D Prioritization Bo	oard		di .	*	*	.1.	***	X	**	**	**	X	**
(U)	-R&D Loans of Defense Equipment			* *	* *	*	*	X	X	X	X	X	X	X
(U) (U)	-Systems & Technology Forum (JA) -Other Bilateral forums			* *	* *	*	*	X	X X	X	X X	X	X X	v
(- /	-Other Bhateral forums -Data/Information Exchange Annexes			*	* *	*	*	X X	X X	X X	X X	X X	X X	X X
	roject 4645			Page 6 o	f 7 Pages			A	21	Δ.		t R-2 (P		

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)							DAT	Fe	bruary	PROJECT 4645 2004 3 4 X X X X X		
BUDGET ACTIVITY D6 - RDT&E Management Support	PE NUMBER AND TITLE 1001004F International Activities						•			PRO	JECT	
U) F. Schedule Profile Continued												
			2002				2003					
	1	2	3	4	1	2	3	4	1	2		
U) -Engineer and Scientist Exchanges	*	*	*	*	*	X	X	X	X	X		X
U) -Administrative and Professional Exchanges	*		*	*	*		*7	X	***			
U) -NATO Air Force Armaments Group	*		*		*		X X		X X			
U) -Four-Power Air Senior National Representatives	*	*	*	*	4	v	X	37	X	v	X	v
U) -Four-Power Long-Term Technology Working Group		*		4		X		X		X		X